## AF140-40-11-11



Products + Low Voltage Products and Systems + Control Products + Contactors + Block Contactors

General Information	
Extended Product Type:	AF140-40-11-11
Product ID:	1SFL447101R1111
EAN:	7320500503768
Catalog Description:	AF140-40-11-11 Contactor
Long Description:	A 3-phase Contactor suitable for various applications such as Motor startin g, Isolation, By-pass and Distribution application up to max 690 V. Operate d with wide control voltage range 24-60 V, 50 and 60 Hz, 20-60 V DC

## Ordering

Minimum Order Quantity:	1 piece
Customs Tariff Number:	85364900
limensions	
Product Net Width:	120 mm
Product Net Depth / Length:	128,1 mm
Product Net Height:	150 mm
Product Net Weight:	2.07 kg
echnical	
Number of Main Contacts NO:	4
Number of Main Contacts NC:	0
Number of Auxiliary Contacts NO:	1
Number of Auxiliary Contacts NC:	1
Rated Operational Voltage:	Main Circuit 690 V
Rated Frequency (f):	Main Circuit 60 Hz
Conventional Free-air Thermal Current (I <sub>th</sub> ):	acc. to IEC 60947-4-1, Open Contactors q = 40 °C 200 A
Rated Operational Current AC-1 (I <sub>e</sub> ):	(690 V) 40 °C 200 A (690 V) 70 °C 160 A (690 V) 60 °C 175 A
Rated Operational Current AC-3 (I <sub>e</sub> ):	(415 V) 55 °C 140 A (220 / 230 / 240 V) 55 °C 140 A (440 V) 55 °C 140 A (380 / 400 V) 55 °C 140 A

Rated Control Circuit Voltage (U <sub>c</sub> ):       60 Hz 24 60 V         50 Hz 24 60 V       DC Operation 20 60 V         Coil Consumption:       Pull-in at Max. Rated Control Circuit Voltage 60 Hz 225 V·A         Holding at Max. Rated Control Circuit Voltage DC 2.5 W         Holding at Max. Rated Control Circuit Voltage 50 Hz 5.5 V·A         Pull-in at Max. Rated Control Circuit Voltage 50 Hz 255 V·A         Pull-in at Max. Rated Control Circuit Voltage 50 Hz 255 V·A         Pull-in at Max. Rated Control Circuit Voltage 50 Hz 5.5 V·A         Pull-in at Max. Rated Control Circuit Voltage 60 Hz 5.5 V·A         Pull-in at Max. Rated Control Circuit Voltage 60 Hz 5.5 V·A         Pull-in at Max. Rated Control Circuit Voltage 60 Hz 5.5 V·A         Holding at Max. Rated Control Circuit Voltage 60 Hz 5.5 V·A         Operate Time:       Between Coil De-energization and NO Contact Opening 40 70 ms         Between Coil Energization and NO Contact Closing 20 55 ms         Connecting Capacity Main Circuit:       Flexible 2 x 10 70 mm <sup>2</sup> Rigid Cu-Cable 2 x 10 95 mm <sup>2</sup> Connecting Capacity Auxiliary       Solid 1 x 1 4 mm <sup>2</sup> Flexible 2x 0.75 2.5 mm <sup>2</sup> Stranded 2 x 1 4 mm <sup>2</sup> Flexible 2x 0.75 2.5 mm <sup>2</sup>		
acc. to IEC 60947-4-1: Rated Making Capacity AC-3 acc. to IEC 60947-4-1: Short-Circuit Protective Devices: gG Type Fuses 250 A Rated Short-time Withstand Current (I <sub>ew</sub> ): at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 1168 A at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 1168 A at 40 °C Ambient Temp, in Free Air, from a Cold State 110 s 1168 A at 40 °C Ambient Temp, in Free Air, from a Cold State 110 s 1168 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 nu 477 A Maximum Breaking Capacity: cos phi=0.45 (cos phi=0.35 for le > 100 A) at 440 V 3000 A Maximum Electrical Switching Frequency: Rated Insulation Voltage (U): acc. to UL/CSA 600 V acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 1000 V Rated Impulse Withstand Voltage (U <sub>imp</sub> ): Machanical Durability: 5 million Maximum Mechanical Switching Frequency: Coil Operating Limits: (acc. to IEC 60947-4-1) 0.85 x Uc Min 1.1 x Uc Max. (at $\theta \le 70$ °C) °C Rated Control Circuit Voltage (U <sub>2</sub> ): 60 Hz 24 60 V 50 Hz 25 V-A Holding at Max. Rated Control Circuit Voltage 60 Hz 225 V-A Holding at Max. Rated Control Circuit Voltage 50 Hz 25 V-A Holding at Max. Rated Control Circuit Voltage 50 Hz 25 V-A Holding at Max. Rated Control Circuit Voltage 50 Hz 25 V-A Holding at Max. Rated Control Circuit Voltage 50 Hz 25 V-A Holding at Max. Rated Control Circuit Voltage 60 Hz 5.5 V-A Pull-in at Max. Rated Control Circuit Voltage 50 Hz 2.5 V-A Holding at Max. Rated Control Circuit Voltage 50 Hz 2.5 V-A Holding at Max. Rated Control Circuit Voltage 50 Hz 2.5 V-A Holding at Max. Rated Control Circuit Voltage 50 Hz 2.5 V-A Holding at Max. Rated Control Circuit Voltage 50 Hz 2.5 V-A Holding at Max. Rated Control Circuit Voltage 60 Hz 5.5 V-A Operate Time: Between Coil		(380 / 400 V) 75 kW (440 V) 90 kW
to IEC 60947-4.1: Short-Circuit Protective Devices: gG Type Fuses 250 A Rated Short-time Withstand Current (I <sub>ew</sub> ): at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 674 A at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 1168 A at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 1168 A at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 1168 A at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 1168 A at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 1168 A at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 1168 A A C-1 300 cycles per hour Frequency: Rated Insulation Voltage (U <sub>i</sub> ): acc. to UL/CSA 600 V acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 1000 V Rated Impulse Withstand Voltage (U <sub>imp</sub> ): S million Maximum Mechanical Switching Frequency: Coil Operating Limits: (acc. to IEC 60947-4-1) 0.85 x Uc Min 1.1 x Uc Max. (at $\theta \le 70$ °C) °C Rated Control Circuit Voltage (U <sub>i</sub> ): 60 Hz 24 60 V 50 Hz 24 60 V Coil Consumption: (acc. to IEC 60947-4-1) 0.85 x Uc Min 1.1 x Uc Max. (at $\theta \le 70$ °C) °C Rated Control Circuit Voltage (U <sub>i</sub> ): 60 Hz 24 60 V 50 Hz 24 60 V Coil Consumption: Bull-in at Max. Rated Control Circuit Voltage 60 Hz 225 V-A Holding at Max. Rated Control Circuit Voltage 50 Hz 25 V-A Holding at Max. Rated Control Circuit Voltage 50 Hz 25 V-A Holding at Max. Rated Control Circuit Voltage 50 Hz 25 V-A Holding at Max. Rated Control Circuit Voltage 50 Hz 25 V-A Holding at Max. Rated Control Circuit Voltage 50 Hz 25 V-A Holding at Max. Rated Control Circuit Voltage 50 Hz 25 V-A Holding at Max. Rated Control Circuit Voltage 50 Hz 25 V-A Holding at Max. Rated Control Circuit Voltage 50 Hz 25 V-A Holding at Max. Rated Control Circuit Voltage 50 Hz 25 V-A Holding at Max. Rated Control Circuit Voltage 50 Hz 25 V-A Holding at Max. Rated Control Circuit Voltage 50 Hz 25 V-A Holding at Max. Rated Control Circuit Voltage 50 Hz 25 V-A Holding at Max. Rated Control Circuit Voltage 50 Hz 25 V-A Holding		8 x le AC-3
Rated Short-time Withstand       at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 1188 A         Curront (I <sub>ew</sub> ):       at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 1188 A         at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 1188 A       at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 1460 A         at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 1460 A       at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 1460 A         Maximum Breaking Capacity:       cos phi=0.45 (cos phi=0.35 for le > 100 A) at 440 V 3000 A         Maximum Electrical Switching       AC-1 300 cycles per hour         Frequency:       acc. to UL/CSA 600 V         Rated Insulation Voltage (U):       acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 1000 V         Maximum Mechanical Switching       300 cycles per hour         Frequency:       5 million         Maximum Mechanical Switching       300 cycles per hour         Frequency:       60 Hz 24 60 V         Coil Operating Limits:       (acc. to IEC 60947-4-1) 0.85 x Uc Min 1.1 x Uc Max. (at 0 ≤ 70 °C) °C         Rated Control Circuit Voltage (U <sub>0</sub> :       50 Hz 24 60 V         DC Operation 20 60 V       DC Operation 20 60 V         Coil Consumption:       Pull-in at Max. Rated Control Circuit Voltage 60 Hz 225 V-A         Holding at Max. Rated Control Circuit Voltage 50 Hz 255 V-A         Holding at Max. Rat		10 x le AC-3
Current (I <sub>cw</sub> ):       at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 200 A at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 1168 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 1460 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 477 A         Maximum Breaking Capacity:       cos phi=0.45 (cos phi=0.35 for Ie > 100 A) at 440 V 3000 A         Maximum Electrical Switching       AC-1 300 cycles per hour         Frequency:       acc. to UL/CSA 600 V acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 1000 V         Rated Insulation Voltage (U):       acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 1000 V         Rated Insulation Voltage (U):       5 million         Maximum Mechanical Switching       Frequency:         Coll Operating Limits:       (acc. to IEC 60947-4-1) 0.85 x Uc Min 1.1 x Uc Max. (at 0 ≤ 70 °C) °C         Rated Control Circuit Voltage (U <sub>o</sub> ):       60 Hz 24 60 V 50 Hz 24 60 V 50 Hz 24 60 V DC Operation 20 60 V         Coil Consumption:       Pull-in at Max. Rated Control Circuit Voltage 60 Hz 225 V-A Holding at Max. Rated Control Circuit Voltage 50 Hz 25 V-A Holding at Max. Rated Control Circuit Voltage 50 Hz 25 V-A Holding at Max. Rated Control Circuit Voltage 50 Hz 25 V-A Holding at Max. Rated Control Circuit Voltage 50 Hz 2.5 V-A Holding at Max. Rated Control Circuit Voltage 50 Hz 2.5 V-A Holding at Max. Rated Control Circuit Voltage 50 Hz 2.5 V-A Holding at Max. Rated Control Circuit Voltage 50 Hz 2.5 V-A Holding at Max. Rated Control Circuit Voltage 50 Hz 2.5 V-A Holding at Max. Rated Control Circuit Voltage 50 Hz 2.5 V-A Holding at Max. Rated Control Circuit Voltage 50 Hz 2.5 V-A Holdin	Short-Circuit Protective Devices:	gG Type Fuses 250 A
Maximum Electrical Switching Frequency:       AC-1 300 cycles per hour         Rated Insulation Voltage (U):       acc. to UL/CSA 600 V acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 1000 V         Rated Impulse Withstand Voltage (U <sub>imp</sub> ):       Main Circuit 8 kV         Mechanical Durability:       5 million         Maximum Mechanical Switching Frequency:       300 cycles per hour         Goil Operating Limits:       (acc. to IEC 60947-4-1) 0.85 x Uc Min 1.1 x Uc Max. (at θ ≤ 70 °C) °C         Rated Control Circuit Voltage (U <sub>e</sub> ):       60 Hz 24 60 V 50 Hz 24 60 V DC Operation 20 60 V         Coil Consumption:       Pull-in at Max. Rated Control Circuit Voltage 60 Hz 225 V·A Holding at Max. Rated Control Circuit Voltage DC 2.5 W Holding at Max. Rated Control Circuit Voltage DC 210 W Pull-in at Max. Rated Control Circuit Voltage 60 Hz 225 V·A Holding at Max. Rated Control Circuit Voltage 60 Hz 225 V·A Holding at Max. Rated Control Circuit Voltage 60 Hz 25.5 V·A Pull-in at Max. Rated Control Circuit Voltage 60 Hz 25.5 V·A Pull-in at Max. Rated Control Circuit Voltage 60 Hz 2.5 V·A Holding at Max. Rated Control Circuit Voltage 60 Hz 2.5 V·A Holding at Max. Rated Control Circuit Voltage 60 Hz 5.5 V·A         Operate Time:       Between Coil De-energization and NO Contact Opening 40 70 ms Between Coil Energization and NO Contact Closing 20 55 ms         Connecting Capacity Auxillary Circuit:       Solid 1 x 1 4 mm <sup>2</sup> Flexible with Insulated Ferrule 2 x 0.75 2.5 mm <sup>2</sup> Stranded 2 x 1 4 mm <sup>2</sup> Flexible 2x0.75 2.5 mm <sup>2</sup>		at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 200 A at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 1168 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 1460 A
Frequency:       acc. to UL/CSA 600 V acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 1000 V         Rated Impulse Withstand Voltage (Ump):       Main Circuit 8 kV         Mechanical Durability:       5 million         Maximum Mechanical Switching Frequency:       300 cycles per hour (acc. to IEC 60947-4-1) 0.85 x Uc Min 1.1 x Uc Max. (at $\theta \leq 70$ °C) °C         Coil Operating Limits:       (acc. to IEC 60947-4-1) 0.85 x Uc Min 1.1 x Uc Max. (at $\theta \leq 70$ °C) °C         Rated Control Circuit Voltage (Uo):       60 Hz 24 60 V 50 Hz 24 60 V DC Operation 20 60 V         Coil Consumption:       Pull-in at Max. Rated Control Circuit Voltage 60 Hz 225 V-A Holding at Max. Rated Control Circuit Voltage DC 2.5 W Holding at Max. Rated Control Circuit Voltage DC 2.5 W Holding at Max. Rated Control Circuit Voltage DC 2.5 W Holding at Max. Rated Control Circuit Voltage 50 Hz 5.5 V-A Pull-in at Max. Rated Control Circuit Voltage 50 Hz 5.5 V-A Pull-in at Max. Rated Control Circuit Voltage 50 Hz 255 V-A Holding at Max. Rated Control Circuit Voltage 50 Hz 5.5 V-A Pull-in at Max. Rated Control Circuit Voltage 50 Hz 5.5 V-A Pull-in at Max. Rated Control Circuit Voltage 50 Hz 5.5 V-A Holding at Max. Rated Control Circuit Voltage 60 Hz 5.5 V-A         Operate Time:       Between Coil De-energization and NO Contact Opening 40 70 ms Between Coil Energization and NO Contact Closing 20 55 ms         Connecting Capacity Main Circuit:       Flexible 2 x 10 70 mm <sup>2</sup> Rigid Cu-Cable 2 x 10 95 mm <sup>2</sup> Connecting Capacity Auxiliary Circuit:       Solid 1 x 1 4 mm <sup>2</sup> Flexible with Insulated Ferrule 2 x 0.75 2.5 mm <sup>2</sup> <td>Maximum Breaking Capacity:</td> <td>cos phi=0.45 (cos phi=0.35 for le &gt; 100 A) at 440 V 3000 A</td>	Maximum Breaking Capacity:	cos phi=0.45 (cos phi=0.35 for le > 100 A) at 440 V 3000 A
acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 1000 V         Rated Impulse Withstand Voltage       Main Circuit 8 KV         (U <sub>imp</sub> ):       Mechanical Durability:       5 million         Maximum Mechanical Switching       300 cycles per hour         Frequency:       (acc. to IEC 60947-4-1) 0.85 x Uc Min 1.1 x Uc Max. (at θ ≤ 70 °C) °C         Coil Operating Limits:       (acc. to IEC 60947-4-1) 0.85 x Uc Min 1.1 x Uc Max. (at θ ≤ 70 °C) °C         Rated Control Circuit Voltage (U <sub>e</sub> ):       60 Hz 24 60 V         DC Operation 20 60 V       DC Operation 20 60 V         Coil Consumption:       Pull-in at Max. Rated Control Circuit Voltage 60 Hz 225 V·A         Holding at Max. Rated Control Circuit Voltage 50 Hz 5.5 V·A         Pull-in at Max. Rated Control Circuit Voltage 50 Hz 225 V·A         Holding at Max. Rated Control Circuit Voltage 60 Hz 225 V·A         Holding at Max. Rated Control Circuit Voltage 50 Hz 5.5 V·A         Pull-in at Max. Rated Control Circuit Voltage 60 Hz 225 V·A         Holding at Max. Rated Control Circuit Voltage 60 Hz 255 V·A         Holding at Max. Rated Control Circuit Voltage 60 Hz 255 V·A         Holding at Max. Rated Control Circuit Voltage 60 Hz 5.5 V·A         Pull-in at Max. Rated Control Circuit Voltage 60 Hz 5.5 V·A         Operate Time:       Between Coil De-energization and NO Contact Opening 40 70 ms         Between Coil De-energization and NO Con	•	AC-1 300 cycles per hour
(Uimp):       5 million         Maximum Mechanical Switching Frequency:       300 cycles per hour         Coil Operating Limits:       (acc. to IEC 60947-4-1) 0.85 x Uc Min 1.1 x Uc Max. (at θ ≤ 70 °C) °C         Rated Control Circuit Voltage (U <sub>o</sub> ):       60 Hz 24 60 V         50 Hz 24 60 V       50 Hz 24 60 V         Coil Consumption:       Pull-in at Max. Rated Control Circuit Voltage 60 Hz 225 V·A Holding at Max. Rated Control Circuit Voltage DC 2.5 W         Holding at Max. Rated Control Circuit Voltage 50 Hz 255 V·A Holding at Max. Rated Control Circuit Voltage 50 Hz 255 V·A         Operate Time:       Between Coil De-energization and NO Contact Opening 40 70 ms Between Coil Energization and NO Contact Closing 20 55 ms         Connecting Capacity Main Circuit:       Flexible 2 x 10 70 mm <sup>2</sup> Rigid Cu-Cable 2 x 10 95 mm <sup>2</sup> Connecting Capacity Auxiliary Circuit:       Solid 1 x 1 4 mm <sup>2</sup> Flexible with Insulated Ferrule 2 x 0.75 2.5 mm <sup>2</sup>	Rated Insulation Voltage (U <sub>i</sub> ):	
Maximum Mechanical Switching Frequency: $300 \text{ cycles per hour}$ Coil Operating Limits:(acc. to IEC 60947-4-1) $0.85 \times \text{Uc Min.} \dots 1.1 \times \text{Uc Max.} (at \theta \le 70 \text{ °C}) \text{ °C}Rated Control Circuit Voltage (U_c):60 \text{ Hz } 24 \dots 60 \text{ V}50 \text{ Hz } 24 \dots 60 \text{ V}50 \text{ Hz } 24 \dots 60 \text{ V}Coil Consumption:Pull-in at Max. Rated Control Circuit Voltage 60 \text{ Hz } 225 \text{ V} \text{ A}Holding at Max. Rated Control Circuit Voltage 50 \text{ Hz } 25.5 \text{ V} \text{ A}Holding at Max. Rated Control Circuit Voltage 50 \text{ Hz } 2.5 \text{ V} \text{ A}Pull-in at Max. Rated Control Circuit Voltage 50 \text{ Hz } 2.5 \text{ V} \text{ A}Pull-in at Max. Rated Control Circuit Voltage 50 \text{ Hz } 2.5 \text{ V} \text{ A}Pull-in at Max. Rated Control Circuit Voltage 50 \text{ Hz } 2.5 \text{ V} \text{ A}Pull-in at Max. Rated Control Circuit Voltage 50 \text{ Hz } 2.5 \text{ V} \text{ A}Pull-in at Max. Rated Control Circuit Voltage 50 \text{ Hz } 2.5 \text{ V} \text{ A}Pull-in at Max. Rated Control Circuit Voltage 60 \text{ Hz } 5.5 \text{ V} \text{ A}Pull-in at Max. Rated Control Circuit Voltage 60 \text{ Hz } 5.5 \text{ V} \text{ A}Pull-in at Max. Rated Control Circuit Voltage 60 \text{ Hz } 5.5 \text{ V} \text{ A}Poperate Time:Between Coil De-energization and NO Contact Opening 40 \dots .70 \text{ ms}Between Coil Energization and NO Contact Closing 20 \dots .55 \text{ ms}Connecting Capacity Main Circuit:Flexible 2 \times 10 \dots .70 \text{ mm}^2Rigid Cu-Cable 2 \times 10 \dots .95 \text{ mm}^2Connecting Capacity AuxiliarySolid 1 \times 1 \dots 4 \text{ mm}^2Flexible vith Insulated Ferrule 2 \times 0.75 \dots 2.5 \text{ mm}^2Stranded 2 \times 1 \dots .4 \text{ mm}^2Flexible 2 \times 0.75 \dots .2.5 \text{ mm}^2$		Main Circuit 8 kV
Frequency:Coil Operating Limits:(acc. to IEC 60947-4-1) $0.85 \times Uc Min 1.1 \times Uc Max. (at \theta \le 70 °C) °CRated Control Circuit Voltage (U_c):60 Hz 24 60 V50 Hz 24 60 VDC Operation 20 60 VCoil Consumption:Pull-in at Max. Rated Control Circuit Voltage 60 Hz 225 V·AHolding at Max. Rated Control Circuit Voltage DC 2.5 WHolding at Max. Rated Control Circuit Voltage DC 210 WPull-in at Max. Rated Control Circuit Voltage 50 Hz 5.5 V·APull-in at Max. Rated Control Circuit Voltage 60 Hz 225 V·AHolding at Max. Rated Control Circuit Voltage 50 Hz 2.5 V·APull-in at Max. Rated Control Circuit Voltage 50 Hz 2.5 V·APull-in at Max. Rated Control Circuit Voltage 60 Hz 2.5 V·APull-in at Max. Rated Control Circuit Voltage 60 Hz 5.5 V·APull-in at Max. Rated Control Circuit Voltage 60 Hz 5.5 V·AHolding at Max. Rated Control Circuit Voltage 60 Hz 5.5 V·AOperate Time:Between Coil De-energization and NO Contact Opening 40 70 msBetween Coil Energization and NO Contact Closing 20 55 msConnecting Capacity Main Circuit:Flexible 2 x 10 70 mm²Rigid Cu-Cable 2 x 10 95 mm²Connecting Capacity AuxiliaryCircuit:Solid 1 x 1 4 mm²Flexible with Insulated Ferrule 2 x 0.75 2.5 mm²$	Mechanical Durability:	5 million
Rated Control Circuit Voltage (Ue):       60 Hz 24 60 V         50 Hz 24 60 V       DC Operation 20 60 V         Coil Consumption:       Pull-in at Max. Rated Control Circuit Voltage 60 Hz 225 V·A         Holding at Max. Rated Control Circuit Voltage DC 2.5 W         Holding at Max. Rated Control Circuit Voltage 50 Hz 5.5 V·A         Pull-in at Max. Rated Control Circuit Voltage 50 Hz 255 V·A         Pull-in at Max. Rated Control Circuit Voltage 50 Hz 255 V·A         Pull-in at Max. Rated Control Circuit Voltage 60 Hz 255 V·A         Pull-in at Max. Rated Control Circuit Voltage 50 Hz 255 V·A         Pull-in at Max. Rated Control Circuit Voltage 60 Hz 5.5 V·A         Pull-in at Max. Rated Control Circuit Voltage 60 Hz 5.5 V·A         Pull-in at Max. Rated Control Circuit Voltage 60 Hz 5.5 V·A         Operate Time:       Between Coil De-energization and NO Contact Opening 40 70 ms         Between Coil Energization and NO Contact Closing 20 55 ms         Connecting Capacity Main Circuit:       Flexible 2 x 10 70 mm <sup>2</sup> Rigid Cu-Cable 2 x 10 95 mm <sup>2</sup> Connecting Capacity Auxiliary       Solid 1 x 1 4 mm <sup>2</sup> Flexible with Insulated Ferrule 2 x 0.75 2.5 mm <sup>2</sup> Stranded 2 x 1 4 mm <sup>2</sup> Flexible 2x0.75 2.5 mm <sup>2</sup>		300 cycles per hour
50 Hz 24 60 V DC Operation 20 60 VCoil Consumption:Pull-in at Max. Rated Control Circuit Voltage 60 Hz 225 V·A Holding at Max. Rated Control Circuit Voltage DC 2.5 W Holding at Max. Rated Control Circuit Voltage 50 Hz 5.5 V·A Pull-in at Max. Rated Control Circuit Voltage DC 210 W Pull-in at Max. Rated Control Circuit Voltage 50 Hz 225 V·A Holding at Max. Rated Control Circuit Voltage 60 Hz 5.5 V·AOperate Time:Between Coil De-energization and NO Contact Opening 40 70 ms Between Coil Energization and NO Contact Closing 20 55 msConnecting Capacity Main Circuit:Flexible 2 x 10 70 mm² Rigid Cu-Cable 2 x 10 95 mm²Connecting Capacity Auxiliary Circuit:Solid 1 x 1 4 mm² Flexible with Insulated Ferrule 2 x 0.75 2.5 mm²	Coil Operating Limits:	(acc. to IEC 60947-4-1) 0.85 x Uc Min 1.1 x Uc Max. (at $\theta \le 70$ °C) °C
Holding at Max. Rated Control Circuit Voltage DC 2.5 W Holding at Max. Rated Control Circuit Voltage 50 Hz 5.5 V·A Pull-in at Max. Rated Control Circuit Voltage DC 210 W Pull-in at Max. Rated Control Circuit Voltage 50 Hz 225 V·A Holding at Max. Rated Control Circuit Voltage 60 Hz 5.5 V·AOperate Time:Between Coil De-energization and NO Contact Opening 40 70 ms Between Coil Energization and NO Contact Closing 20 55 msConnecting Capacity Main Circuit:Flexible 2 x 10 70 mm² Rigid Cu-Cable 2 x 10 95 mm²Connecting Capacity Auxiliary Circuit:Solid 1 x 1 4 mm² Flexible with Insulated Ferrule 2 x 0.75 2.5 mm²	Rated Control Circuit Voltage (U <sub>c</sub> ):	50 Hz 24 60 V
Between Coil Energization and NO Contact Closing 20 55 msConnecting Capacity Main Circuit:Flexible 2 x 10 70 mm² Rigid Cu-Cable 2 x 10 95 mm²Connecting Capacity Auxiliary Circuit:Solid 1 x 1 4 mm² Flexible with Insulated Ferrule 2 x 0.75 2.5 mm²Circuit:Flexible 2 x 1 4 mm² Flexible 2 x 1 4 mm² Flexible 2 x 1 4 mm² Stranded 2 x 1 4 mm² Flexible 2x0.75 2.5 mm²	Coil Consumption:	Holding at Max. Rated Control Circuit Voltage DC 2.5 W Holding at Max. Rated Control Circuit Voltage 50 Hz 5.5 V·A Pull-in at Max. Rated Control Circuit Voltage DC 210 W Pull-in at Max. Rated Control Circuit Voltage 50 Hz 225 V·A
Rigid Cu-Cable 2 x 10 95 mm²         Connecting Capacity Auxiliary       Solid 1 x 1 4 mm²         Circuit:       Flexible with Insulated Ferrule 2 x 0.75 2.5 mm²         Stranded 2 x 1 4 mm²       Flexible 2x0.75 2.5 mm²	Operate Time:	
Circuit:       Flexible with Insulated Ferrule 2 x 0.75 2.5 mm²         Stranded 2 x 1 4 mm²         Flexible 2x0.75 2.5 mm²	Connecting Capacity Main Circuit:	
Flexible with Ferrule 2 x 0.75 2.5 mm <sup>2</sup>		Flexible with Insulated Ferrule 2 x 0.75 2.5 mm <sup>2</sup> Stranded 2 x 1 4 mm <sup>2</sup>

Degree of Protection:	acc. to IEC 60529, IEC 60947-1, EN 60529 Coil Terminals IP20 acc. to IEC 60529, IEC 60947-1, EN 60529 Main Terminals IP00
Terminal Type:	Double Clamp
Environmental	
Ambient Air Temperature:	Close to Contactor Fitted with Thermal O/L Relay (0.85 1.1 Uc) -25 +50 °C Close to Contactor without Thermal O/L Relay (0.85 1.1 Uc) -40 +70 °C Close to Contactor for Storage -40 +70 °C
Maximum Operating Altitude Permissible:	3000 m
Technical UL/CSA	
Maximum Operating Voltage UL/CSA:	Main Circuit 600 V
General Use Rating UL/CSA:	(600 V AC) 200 A
Certificates and Declarations (D	Oocument Number)
CB Certificate:	SEMKO_SE-77317
CCC Certificate:	2013010304604055
cUL Certificate:	E73397_20140710
DNV GL Certificate:	DNV_E-14043
LR Certificate:	LR_14_70011(E1)
Container Information	
Package Level 1 Units:	1 piece
Package Level 1 Gross Weight:	2.27 kg
Package Level 1 EAN:	7320500503768
Classifications	
Object Classification Code:	Q
ETIM 4:	EC000066 - Magnet contactor, AC-switching
ETIM 5:	EC000066 - Magnet contactor, AC-switching
ETIM 6:	EC000066 - Power contactor, AC switching

